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☐	L43	L42 and (data adj1 mining)	6
☐	L42	(l39 or l40 or l41) and ((multi-dimensional or (multi adj1 dimensional) or multi-dimension or multi-dimensions or (multi adj1 dimension) or (multi adj1 dimensions)) adj1 (database$ or (data adj1 base$)))	50
☐	L41	707/102.ccls.	1768
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☐	L25	L24 and (multi-dimensional or (multi adj1 dimensional) or multi-dimension or multi-dimensions or (multi adj1 dimension) or (multi adj1 dimensions)).ti.	0
☐	L24	(customer adj1 relationship adj1 management)	63
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☐	L21	L20 and (data adj1 mining)	8
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☐	L19	L16 and dimension$	11

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☐	L18	L17 and speculat$	0
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☐	L3	L2 and ((multi-dimensional or (multi adj1 dimensional)) near (database$ or (data adj1 base$)))	0
☐	L2	(L1).pn. (4437155 4499956 4499955 4533962 4567512 4783751 4884223 5270957 5392169 5584009 5590297 5625835 5632023 5649136 5651124 5655115 5659721 5673408 5673426 5749084 5751983 5751985 5784587 5797026 5802337 5805853 5838942 5854911 5860104 5870599 5872986 5901308 5907860 5966530 5987561 6006033 6044351 6079012 6163839 6182210 6189068 6202204 6240509 6247115 6247121 6256745 6260190 6269435 6332214 6338133).pn. (6345351 6349361 6374154 6381691 6397274 6430679 6487637 6487675 6516405 6516462 6526480 6550700 6574206 6606702 6609192 6618737 6618803 6625660 6631454 6640315 6643767 6658554 6678792 6681317 6691220 5933816 6108004 6236977 4437184 5210868 5369570 5375164 5412712 5519633 5546321 5615341 5761389 5764975 5774661 5794209 5832482 5870748 5884305 5940815 5943667 5946375 5983222 6026333 6047279 6144941).pn. (6185555 6226656 6226656 6233537 6311179 6321217 6330562 6336109 6370280 6408295 6415287 6449650 6477533 6529508 6535883 6553359 6567408 5390286 4849905 5398304 5617514 5630025 5787235 5787234 5799297 5222197 5226110 5402524 5402526 5412756 5524176 5528516 5661668 5666481 5717835 5725974 6040842 6249755 4812819 4937760 4967368 5023807 5179633 5197004 5295230 5337320 5388189 5426645 5463552 5473732).pn. (5553274 5553273 5600726 5632007 5687290 5752052 5768475 5890146 5907844 5950182 5963894 4912648 4937755 4941102 4965882 4969085 4975865 5241620 5263127 5276885 5293585 5303332 5311422 5373486 5390354 5412576 5423041 5428525 5487135 5528730 5544256 5557742 5606646 5644770 5649066 5727130 5768480 5802255 5809212 5815638 5828812 5874955 5886693 5893084 5899985 5987440 5988853 6009421 6012640	294

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☐	L1	6016960).pn. (6026393 6052680 6054995 6070139 6076083 6092034 6112190 6125359 6144760 6222540 6223150 6222540 6223150 6266656 4517468 4797882 4852173 4866634 4866635 4885705 4916633 4918620 4924435 4931951 4947314 4954964 4970658 5025392 5182793 5214653 5218669 5263126 5267175 5274191 5396580 5401949 5416888 5432948 5438644 5450545 5481650 5485567 5487131 5491775 5495567 5499319 5504814 5533093 5579439 5579441).pn. (5872859 5943501 6061776 6061776 6161170 4275810 5781752 5904639 4251930 5644742 5774685 5854928 5999736 6020920 6119222 6151706 6223309 6223309 5720033 5689417 5510998 5642410 5699402 5748943 6026145 6134530 5404503 5570292 5655015 5790645 5813003 6016477 6058163 6182056 6243697 6292830 6385608 6450407 6466975 6493694 5724565 5812811 4286330 5828868 5966544 5974538 6216234 6216234 4299235 4364472)	494

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1 Practical lessons in supporting large-scale computational science 82%

Ron Musick , Terence Critchlow
ACM SIGMOD Record December 1999
Volume 28 Issue 4

2 A powerful and SQL-compatible data model and query language for OLAP 80%

Dennis Pedersen , Karsten Riis , Torben Bach Pedersen
Australian Computer Science Communications , Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5 January 2002
Volume 24 Issue 2

In this paper we present the SQL*M* OLAP data model, formal algebra, and query language that, unlike current OLAP data models and languages, are both *powerful,* meaning that they support irregular dimension hierarchies, automatic aggregation of data, and correct aggregation of data, and *SQL-compatible,* allowing seamless integration with relational technology. We also consider the requirements to the data model posed by integration of OLAP data with external XML data. ...

3 Designing data marts for data warehouses 80%

ACM Transactions on Software Engineering and Methodology (TOSEM) October 2001
Volume 10 Issue 4

Data warehouses are databases devoted to analytical processing. They are used to support decision-making activities in most modern business settings, when complex data sets have to be studied and analyzed. The technology for analytical processing assumes that data are presented in the form of simple data marts, consisting of a well-identified collection of facts and data analysis dimensions (star schema). Despite the wide diffusion of data warehouse technology and concepts, we still miss me ...

4 The GOLD definition language (GDL): an object oriented formal 80%

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specification language for multidimensional databases
Juan Trujillo , Manuel Palomar , Jaime Gómez
Proceedings of the 2000 ACM symposium on Applied computing March 2000

5 An adaptive view element framework for multi-dimensional data management 80%
John R. Smith , Chung-Sheng Li
Proceedings of the eighth international conference on Information and knowledge management November 1999
We present an adaptive wavelet view element framework for managing different types of multi-dimensional data in storage and retrieval applications. We consider the problems of multi-dimensional data compression, multi-resolution subregion access, selective materialization, progressive retrieval and similarity searching. The framework uses wavelets to partition the multi-dimensional data into view elements that form the building blocks for synthesizing views of the data. The view ele ...

6 Detecting patterns and OLAP operations in the GOLD model 80%
Juan Trujillo , Manuel Palomar , Jaime Gómez
Proceedings of the 2nd ACM international workshop on Data warehousing and OLAP November 1999
The aim of our GOLD model ([7], [9]) is to provide an Object Oriented (OO) Multidimensional data model supported by an OO formal specification language that allows us to automatically generate prototypes from the specification at the conceptual level, and therefore, to animate and check system properties. Within the context of OO modeling and automatic prototyping, the basis of the mapping from modeling to programming is focused on the identification of (cardinality and beh ...

7 An object oriented approach to multidimensional database conceptual modeling (OOMD) 80%
J. Trujillo , M. Palomar
Proceedings of the 1st ACM international workshop on Data warehousing and OLAP November 1998

8 Efficiently synchronizing multidimensional schema data 77%
L. Schlesinger , A. Bauer , W. Lehner , G. Ediberidze , M. Gutzmann
Proceedings of the 4th ACM international workshop on Data warehousing and OLAP November 2001
Most existing concepts in data warehousing provide a central database system storing gathered raw data and redundantly computed materialized views. While in current system architectures client tools are sending queries to a central data warehouse system and are only used to graphically present the result, the steady rise in power of personal computers and the expansion of network bandwidth makes it possible to store replicated parts of the data warehouse at the client thus saving network bandwi ...

9 Why commercial database systems are not real-time systems 77%
Anant Jhingran
Proceedings of the workshop on on Databases: active and real-time November 1996

10 Conceptual multidimensional data model based on object-oriented 77%

metacube
Nguyen Thanh Binh , A. Min Tjoa
Proceedings of the 2001 ACM symposium on Applied computing March 2001

11 Workshop reports: Report on the ACM fourth international workshop on data warehousing and OLAP (DOLAP 2001) 77%
Joachim Hammer
ACM SIGIR Forum April 2002
Volume 36 Issue 1

12 Searching for dependencies at multiple abstraction levels 77%
Toon Calders , Raymond T. Ng , Jef Wijsen
ACM Transactions on Database Systems (TODS) September 2002
Volume 27 Issue 3
The notion of roll-up dependency (RUD) extends functional dependencies with generalization hierarchies. RUDs can be applied in OLAP and database design. The problem of discovering RUDs in large databases is at the center of this paper. An algorithm is provided that relies on a number of theoretical results. The algorithm has been implemented; results on two real-life datasets are given. The extension of functional dependency (FD) with roll-ups turns out to capture meaningful rules that are outsi ...

13 Reports: Report on the ACM fourth international workshop on data warehousing and OLAP (DOLAP 2001) 77%
Joachim Hammer
ACM SIGMOD Record June 2002
Volume 31 Issue 2
The Fourth Annual ACM International Workshop on Data Warehousing and Online Analytical Processing (DOLAP 2001) was held in Atlanta, GA, USA, in November 2001, in conjunction with the Tenth International Conference on Information and Knowledge Management (CIKM 2001). Although this was only the fourth annual meeting, DOLAP has already become an important and broadly accepted forum for researchers and practitioners to share their findings in theoretical foundations, current methodologies, practical ...

14 High performance multidimensional analysis and data mining 77%
Sanjay Goil , Alok Choudhary
Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM) November 1998
Summary information from data in large databases is used to answer queries in On-Line Analytical Processing (OLAP) systems and to build decision support systems over them. The *Data Cube* is used to calculate and store summary information on a variety of dimensions, which is computed only partially if the number of dimensions is large. Queries posed on such systems are quite complex and require different views of data. These may either be answered from a materialized cube in the data cube o ...

15 CubiST: a new algorithm for improving the performance of ad-hoc OLAP queries 77%
Lixin Fu , Joachim Hammer
Proceedings of the 3rd ACM international workshop on Data warehousing and OLAP November 2000

16 An introduction to data warehousing: what are the implications for the network? 77%

Katherine Jones
International Journal of Network Management February 1998
Volume 8 Issue 1

Data warehousing is an information systems environment, rather than a product. It has emerged as an essential business entity for sophisticated analysis of data. This article presents a clear overview of the implications of data warehousing for business.

17 High performance multidimensional analysis of large datasets 77%

Sanjay Goil , Alok Choudhary
Proceedings of the 1st ACM international workshop on Data warehousing and OLAP November 1998

18 A toolkit for negotiation support interfaces to multi-dimensional data 77%

Michael Gebhardt , Matthias Jarke , Stephan Jacobs
ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data June 1997
Volume 26 Issue 2

CoDecide is an experimental user interface toolkit that offers an extension to spreadsheet concepts specifically geared towards support for cooperative analysis of the kinds of multi-dimensional data encountered in data warehousing. It is distinguished from previous proposals by direct support for drill-down/roll-up analysis without redesign of an interface; more importantly, CoDecide can link multiple views on a data cube for synchronous or asynchronoous cooperation by multiple ana ...

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